



Title: SYSTEM AND METHOD FOR RANGE CHECK ELIMINATION VIA ITERATION  
SPLITTING IN A DYNAMIC COMPILER  
Application No.: 09/872,458 Docket No.: SUNMP018 Inventor(s):CLICK et al.

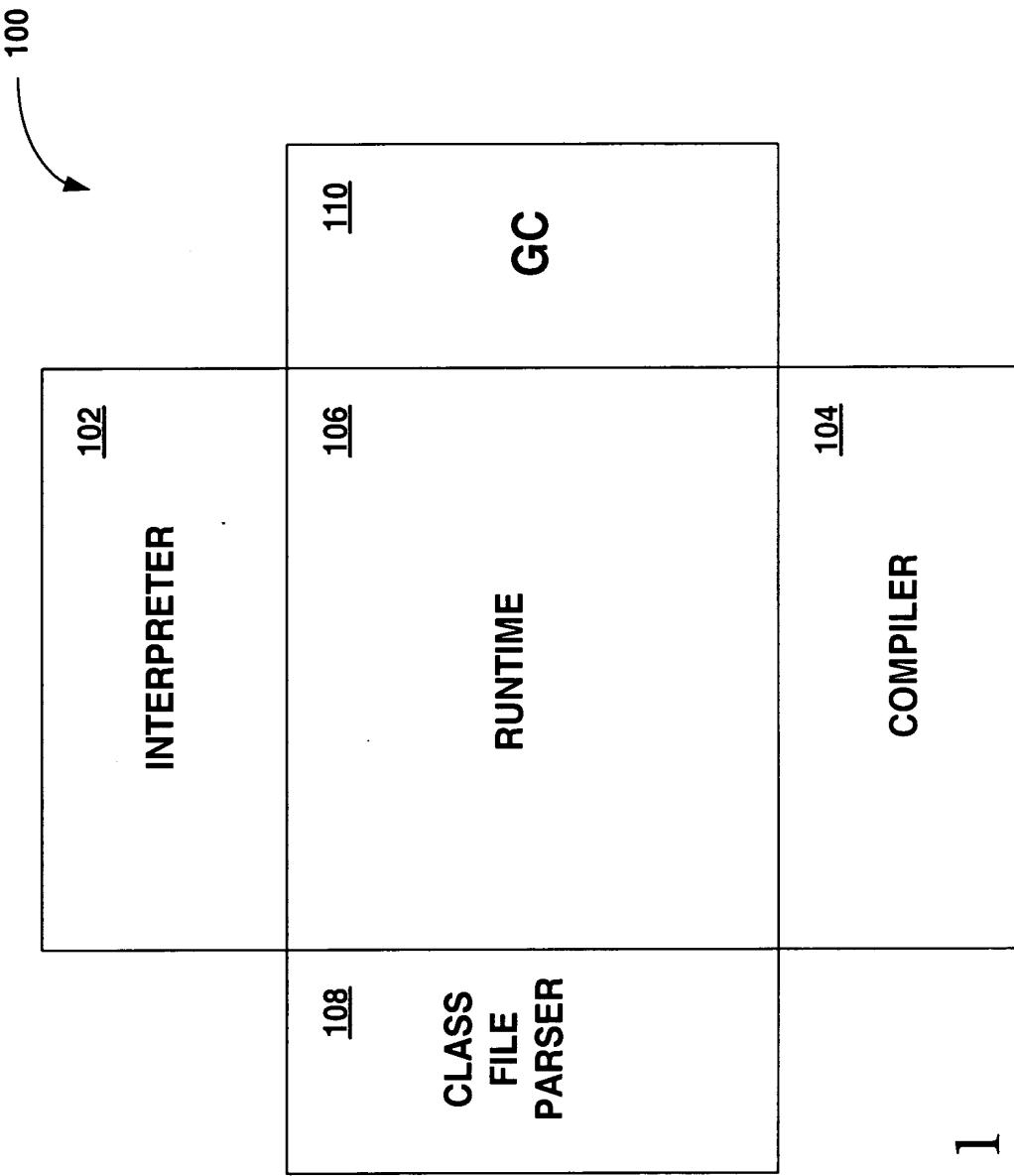


FIG. 1



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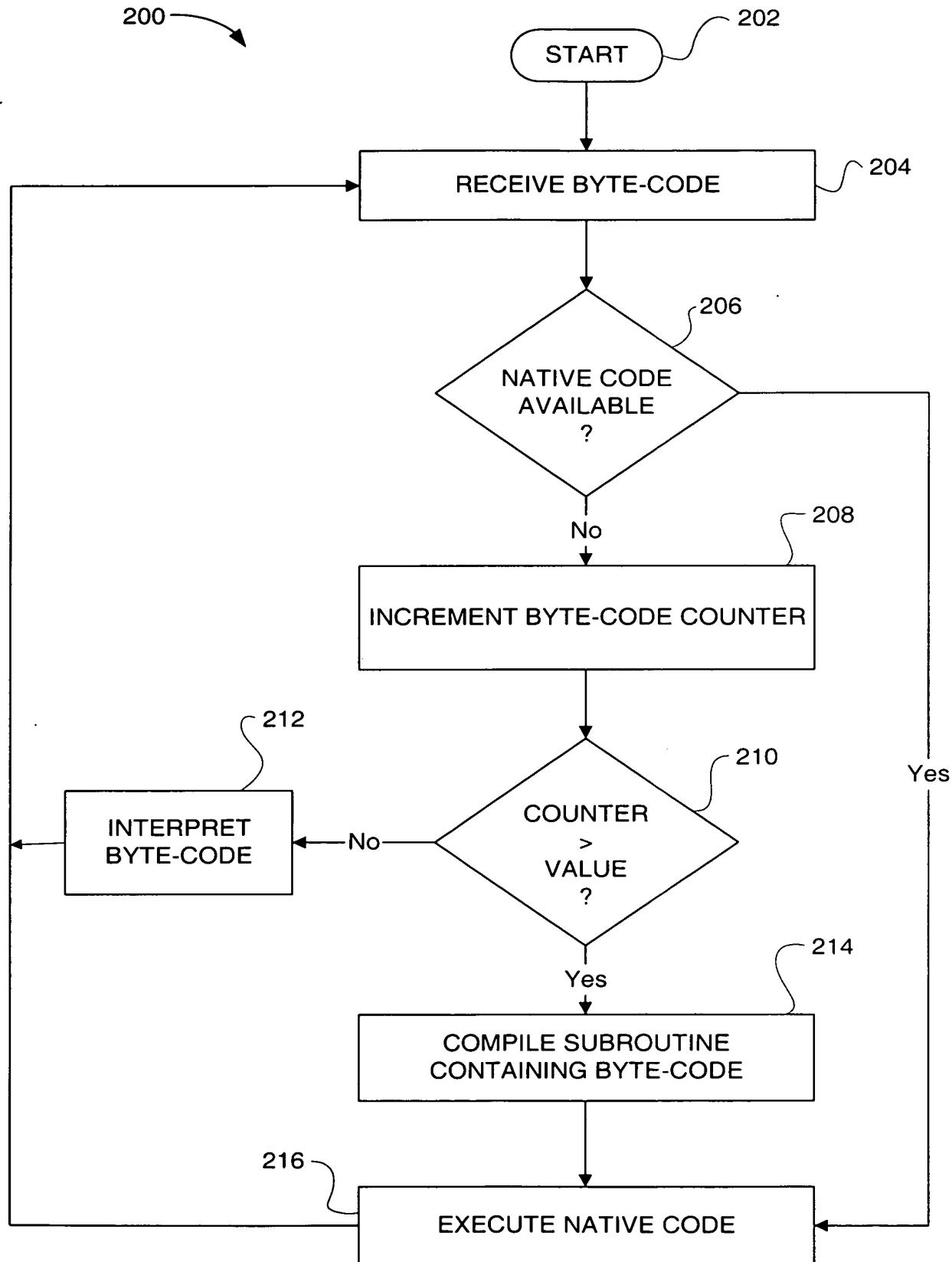


FIG. 2



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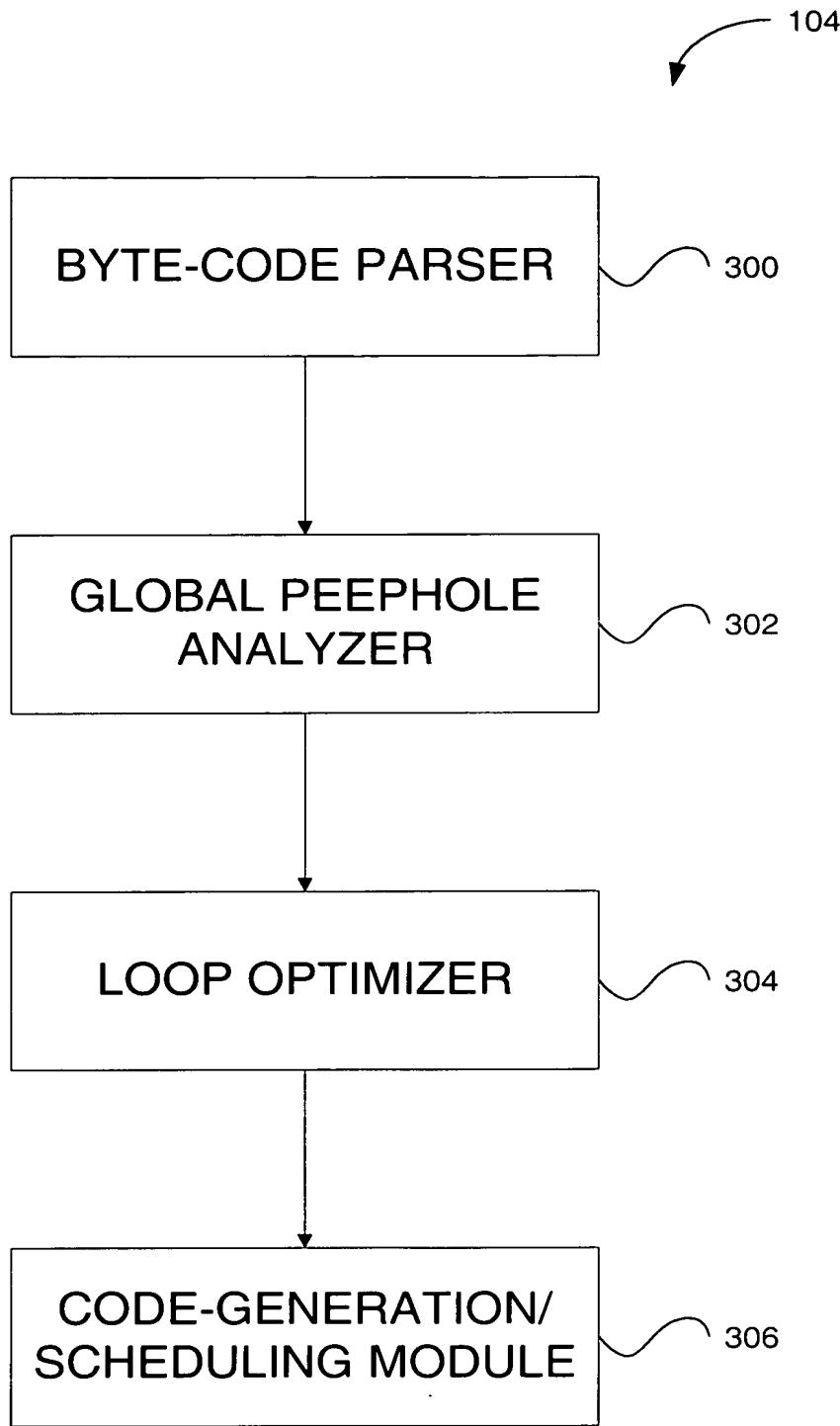


FIG. 3

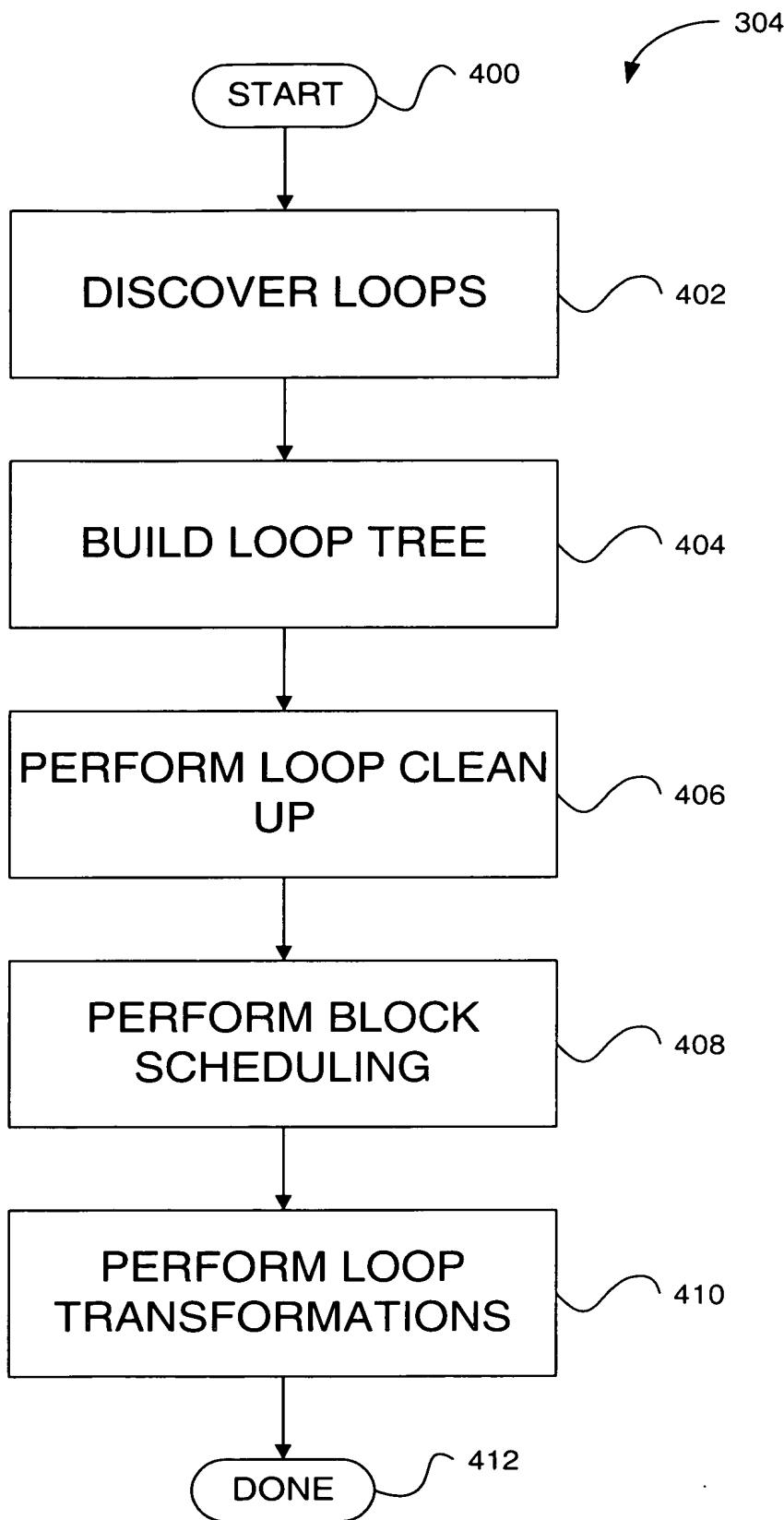


FIG. 4



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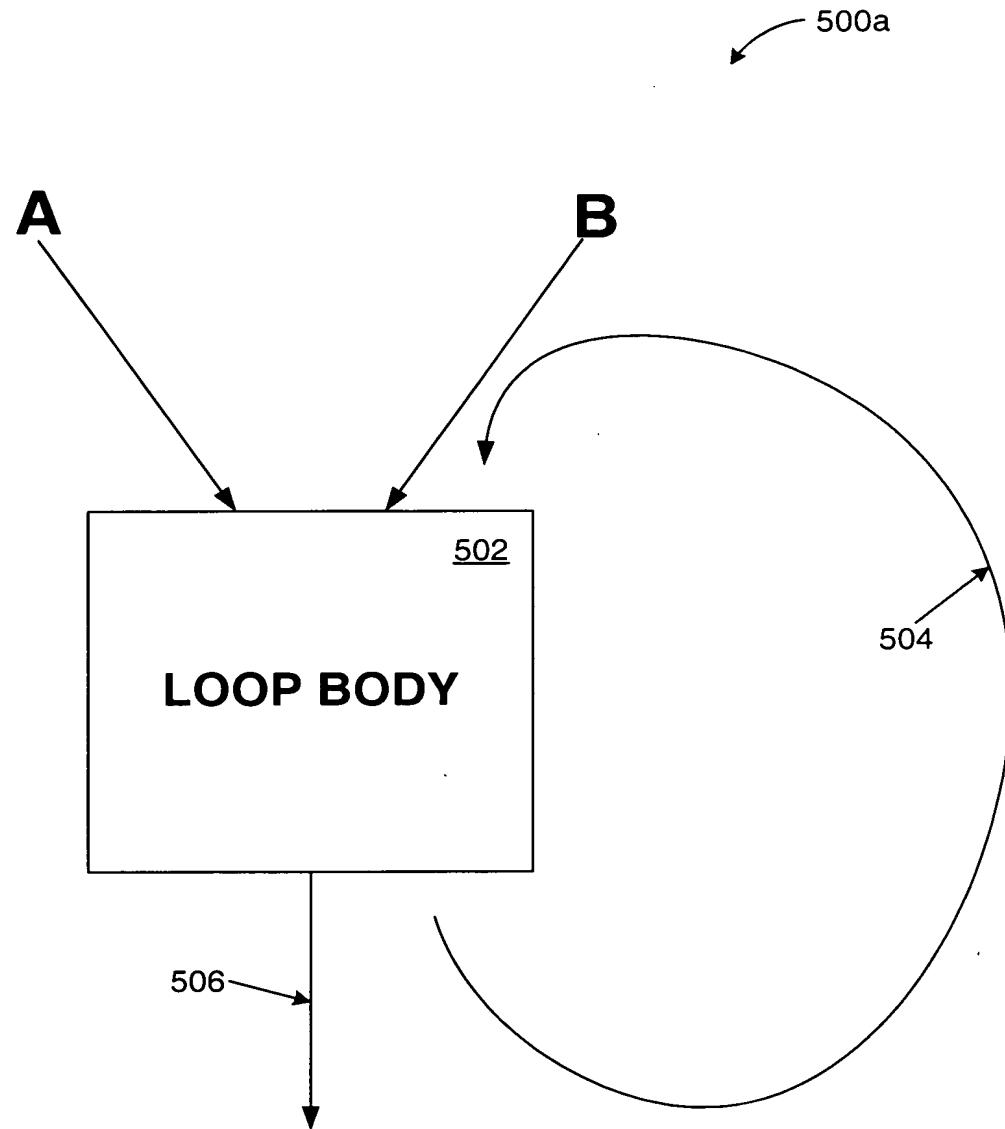


FIG. 5A



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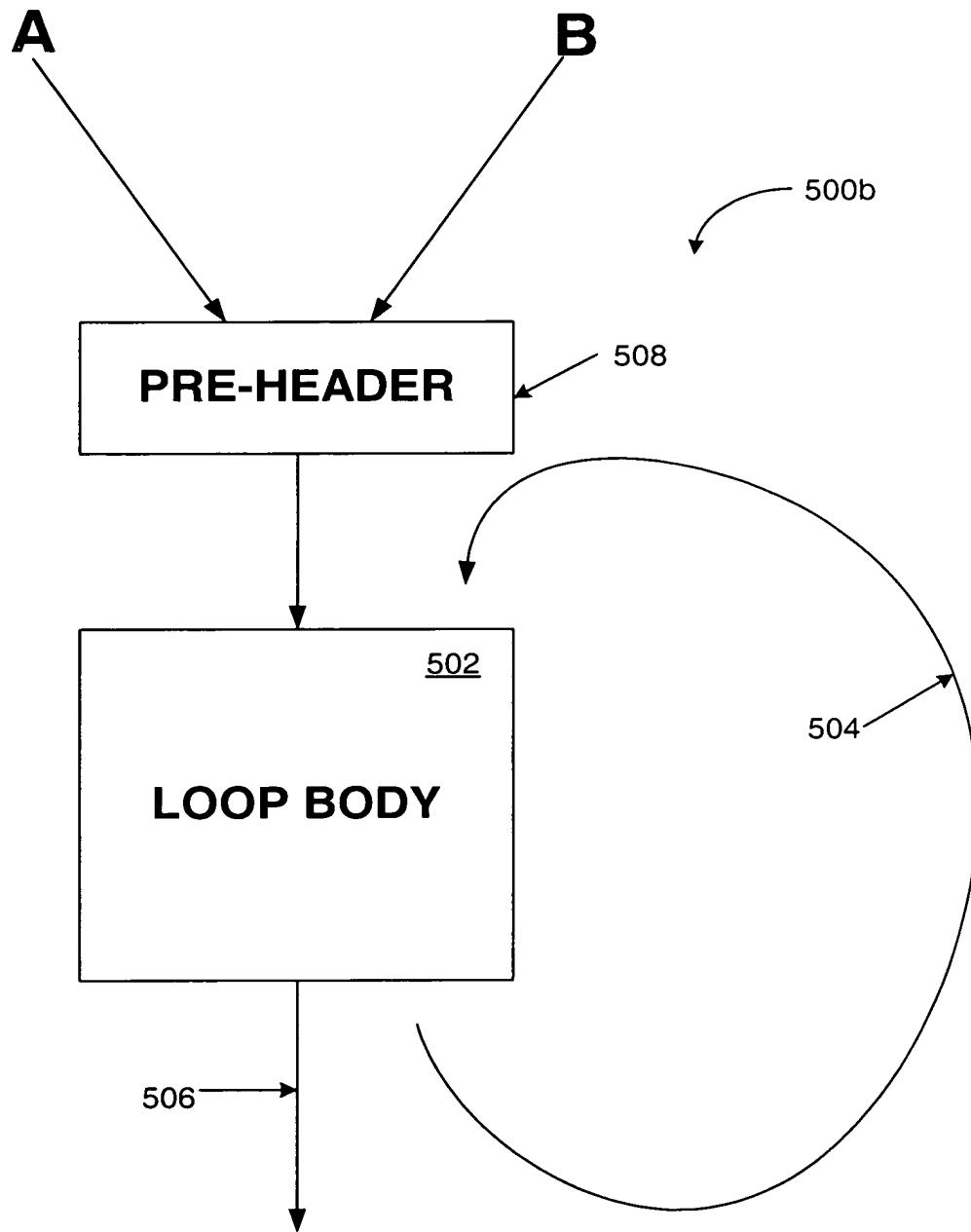
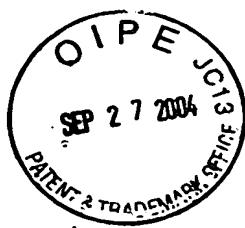


FIG. 5B



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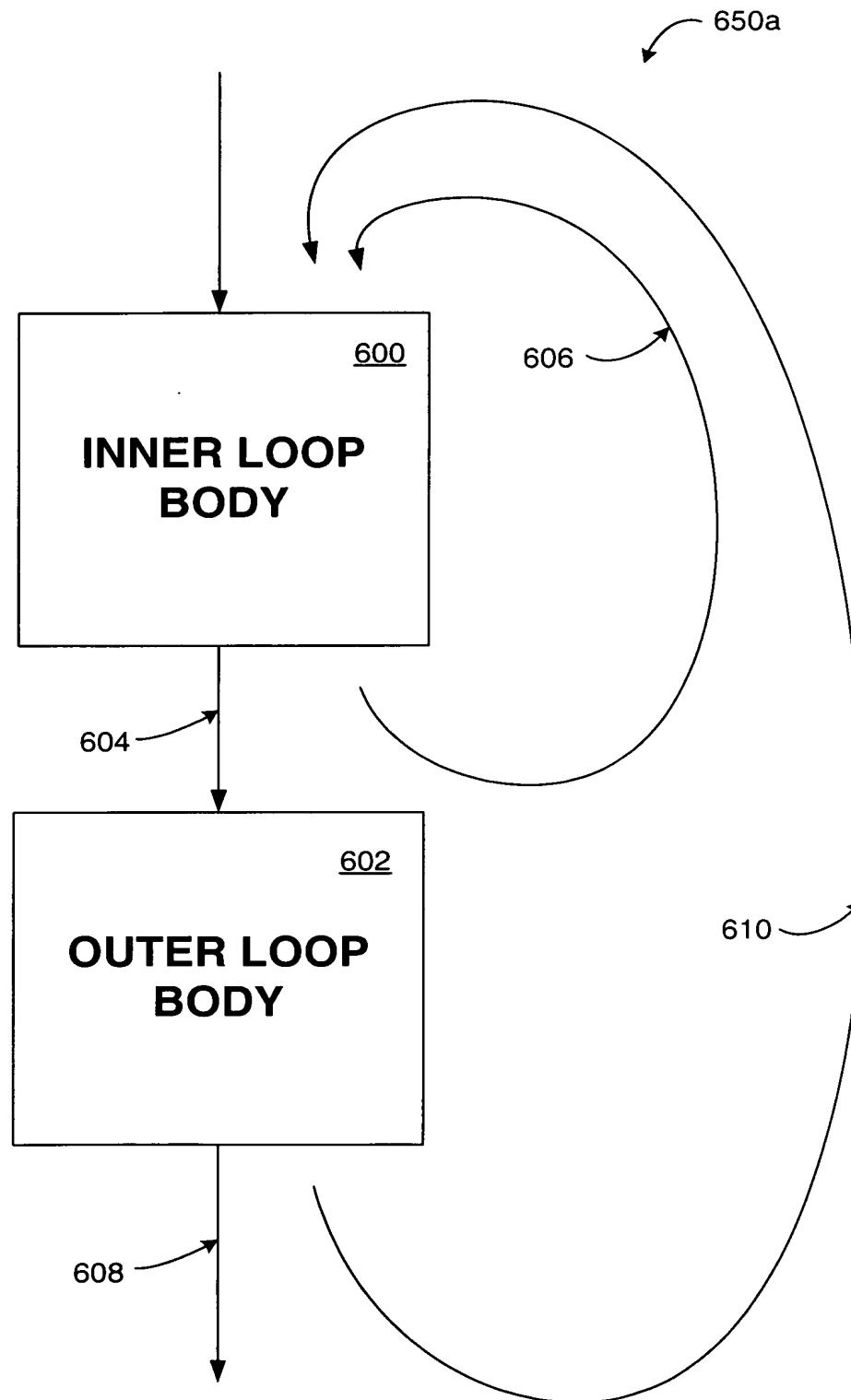


FIG. 6A



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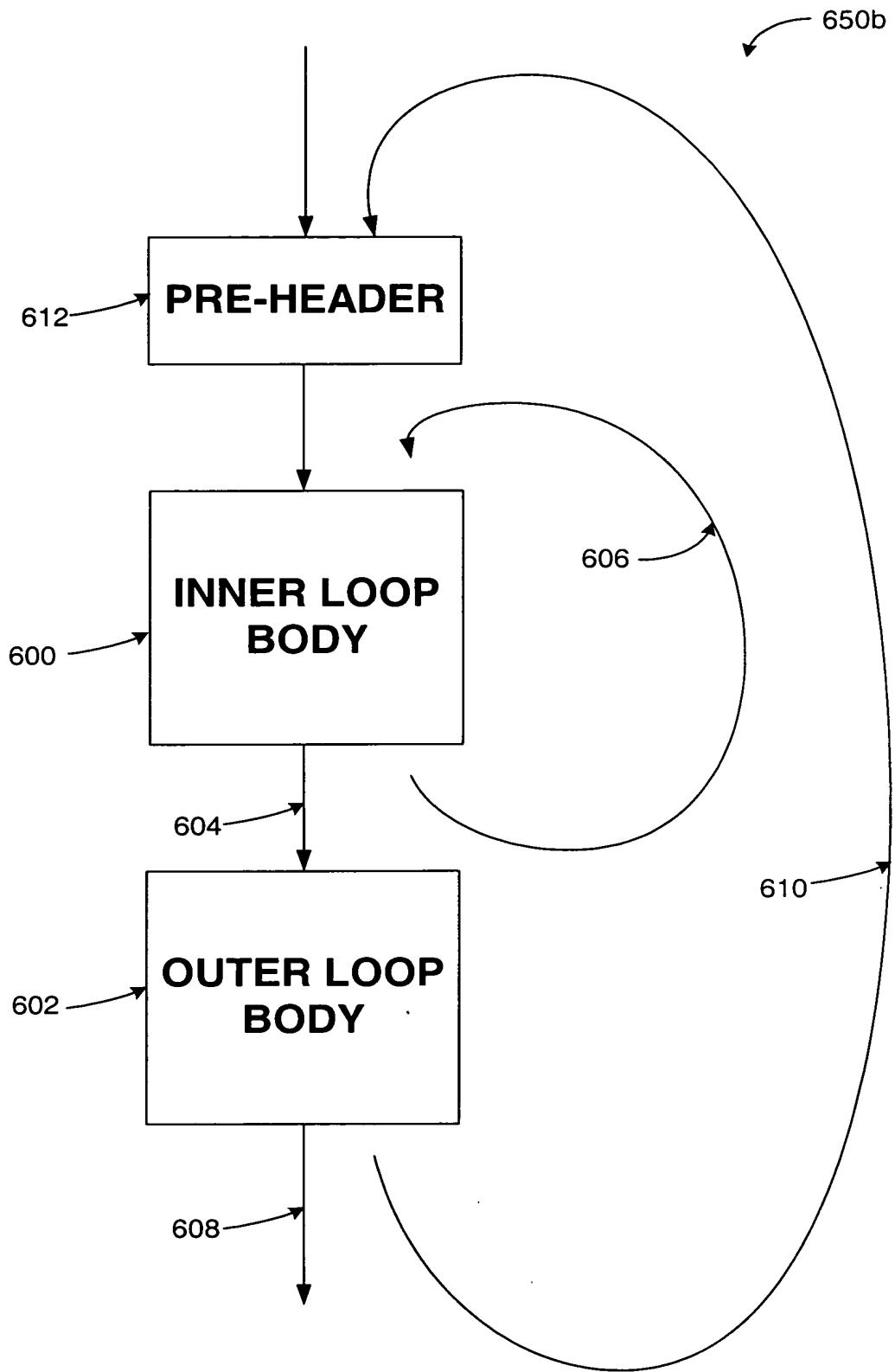


FIG. 6B

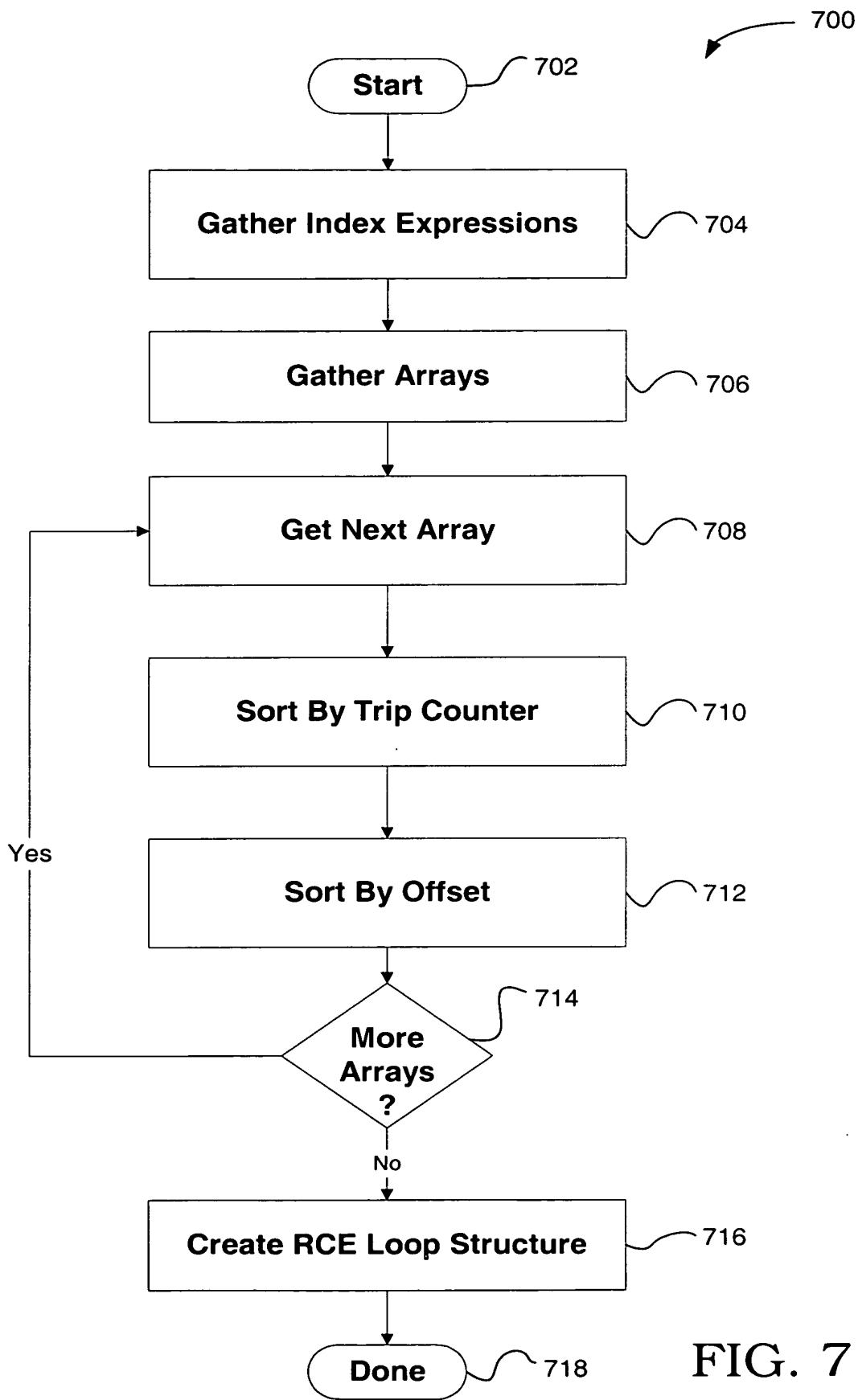


FIG. 7



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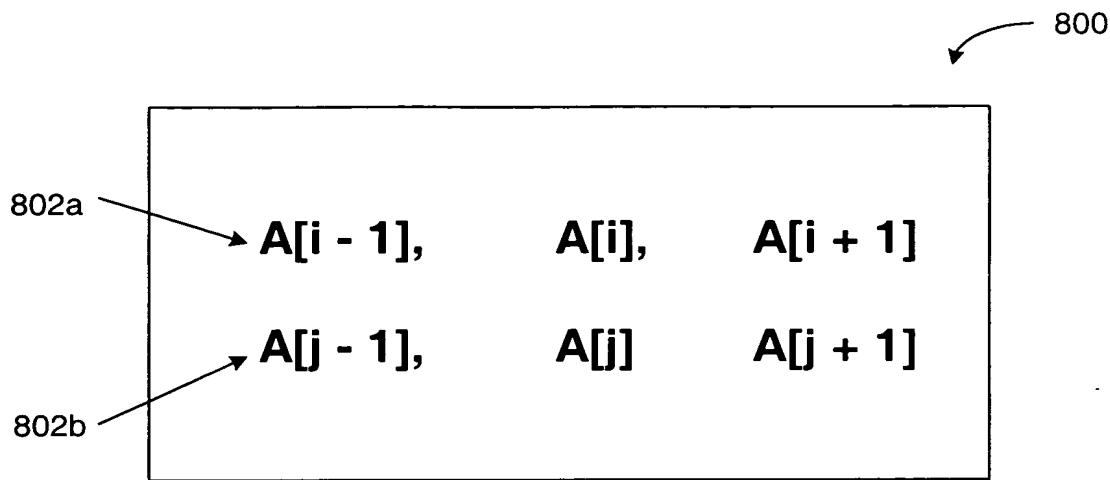


FIG. 8

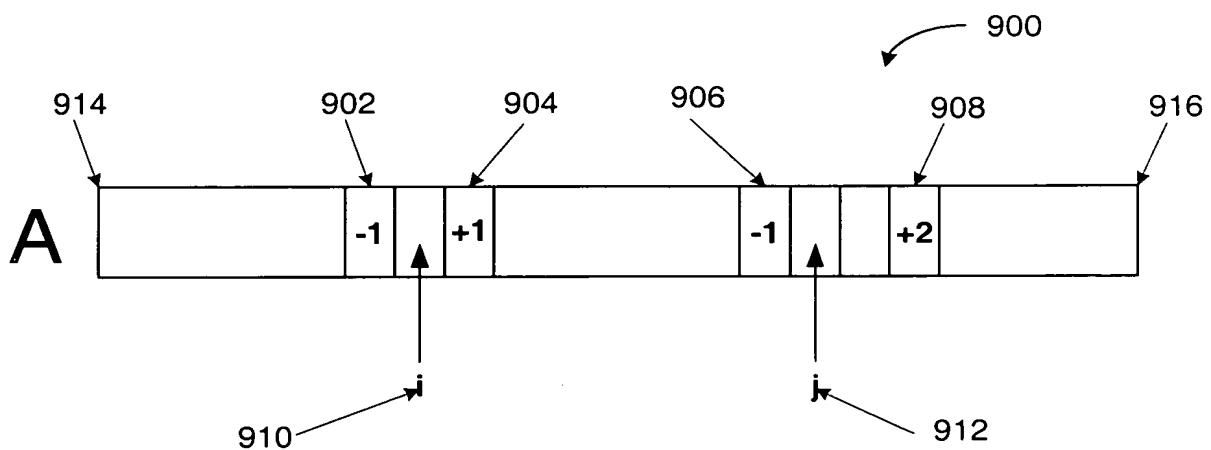
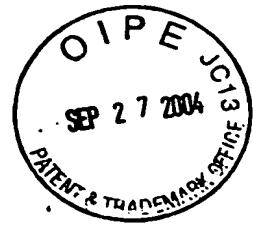


FIG. 9



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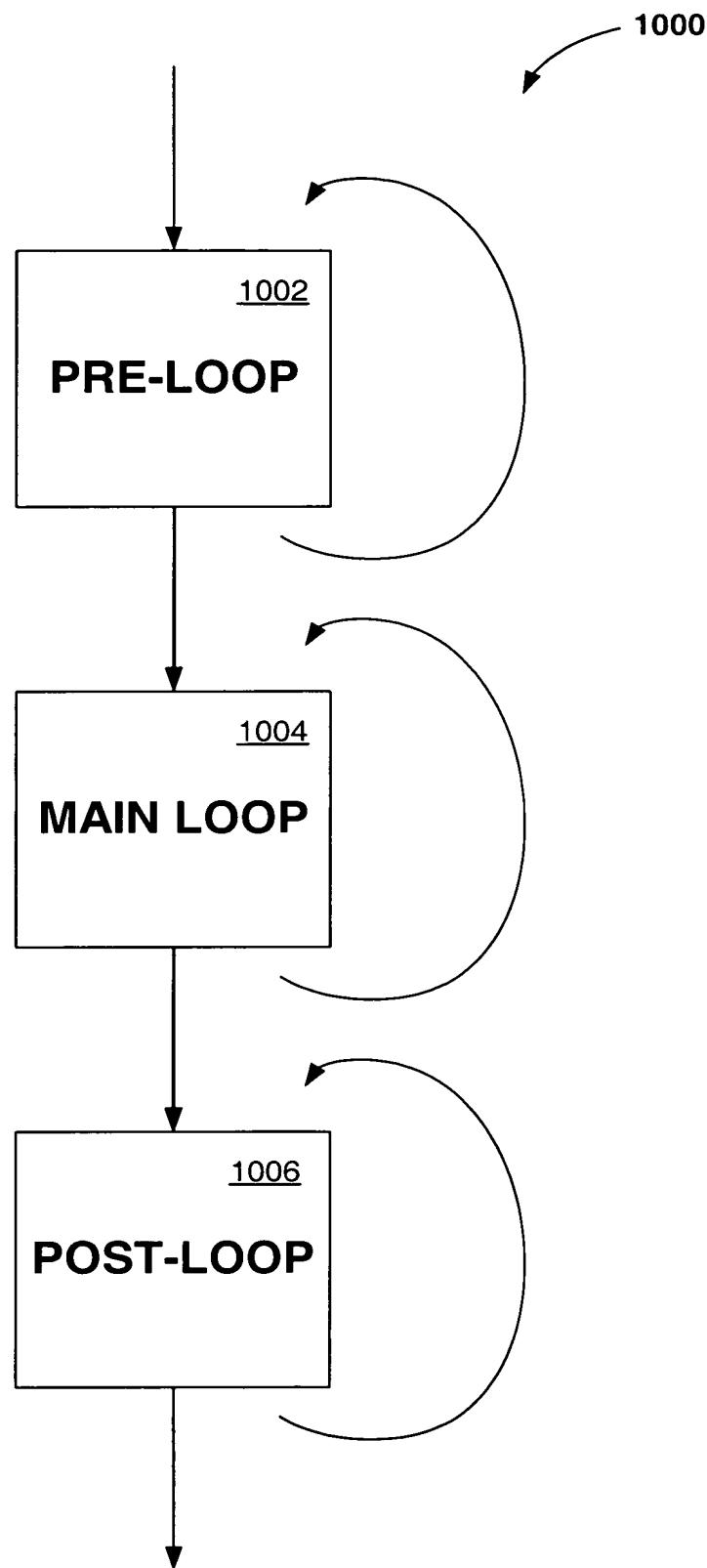


FIG. 10



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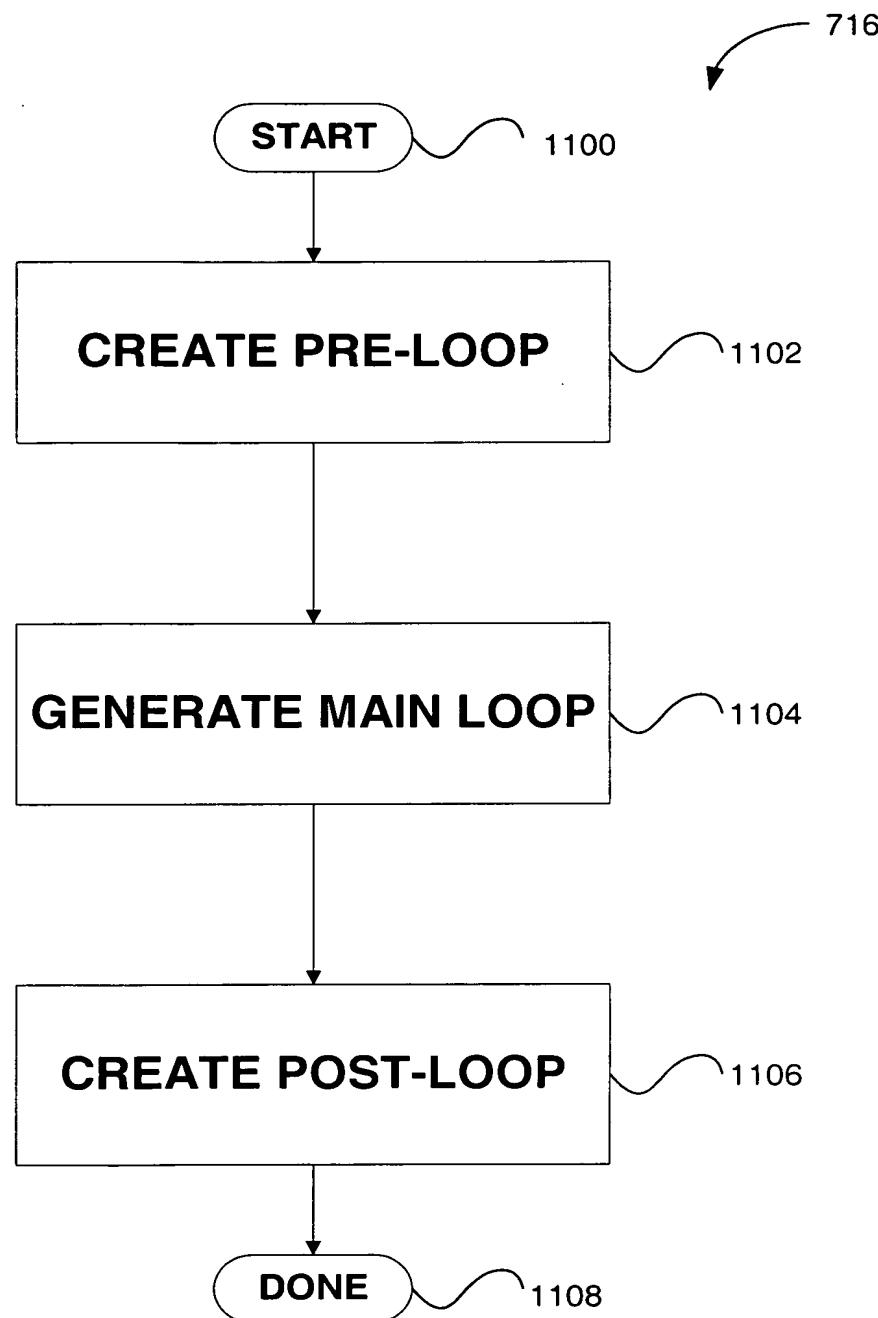


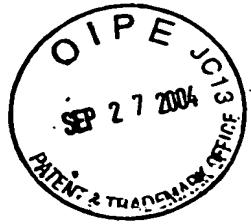
FIG. 11



1200

```
FOR ( i = x ; i < n; i++)
{
    SUM += A[i];
    IF (p) {
        SUM += A[i+1];
    }
}
```

FIG. 12



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```
FOR ( i = x ; i < 0; i++) {  
    // Loop Body  
}
```

802

1002

FIG. 13

```
FOR ( ; i < min(n, A.Length-1); i++)  
{  
    // Loop Body  
}
```

802

1004

FIG. 14

```
FOR ( ; i < n; i++) {  
    // Loop Body  
}
```

802

1006

FIG. 15